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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/591,070	Applicant(s) TSUYUZAKI, NORIYOSHI
	Examiner JAMES YANG	Art Unit 2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 11/23/2009.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4, 6-8-11, 13 and 15-19 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-4, 6, 8-11, 13, 15-19 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/06)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

This Office Action is in response to Applicant's Amendment filed 11/23/2009. Claims 1-4, 6, 8-11, 13, and 15-19 are currently pending in this application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 18-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Shi (EP 0957220).

Claim 18, Shi teaches:

A computer readable memory medium storing an authentication program, said authentication program (Shi, Paragraph [0006]: “In addition, the code stored in the memory units of the lock-body as well as the key-body is not a permanent one, but one *automatically* changed every time the lock is opened successfully.” Shi discloses in Fig. 2 a flow chart showing the operation of the cryptogram lock system performed by the microprocessor IC1, non-volatile memory unit of the lock-body and key-body, random code generator IC3, output driver IC5, and alarm unit IC6, which is automatically performed. It is inherent of a system that automatically performs the steps

disclosed in Fig. 2 and Paragraph [0020] that the steps, as a whole, are programmed into the microprocessor IC1 of the lock-body.) **comprising:**

a code to generate random pulses from a random pulse generator (Shi,
Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately *a new code from the true random code generator* to replace the previous one stored in the memory units IC2 and IC4 so as to make the lock system ready for the next operation." The random pulse generation is disclosed in Fig. 3 and Paragraph [0017].) **arranged in a body or a partner side paired with the body, or in both the body and the partner side partner side (Shi,**
Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately *a new code from the true random code generator* to replace the previous one stored in the memory units IC2 and IC4 so as to make the lock system ready for the next operation." The random pulse generation is disclosed in Fig. 3 and Paragraph [0017].);

a code to output authentication data based on a pulse voltage or a pulse interval of the random pulses generated by the random pulse generator (Shi,
Paragraph [0013]: "Whenever the lock is opened successfully, the *microprocessor IC1 takes out automatically a new code from the true random code generator* and stored it simultaneously in the memory units IC2 and IC4, respectively, for the next opening operation." The microprocessor IC1 outputs the new codes from the code generator and stores them in memory units. The random numbers generated are determined by a

sequence of pulses with random widths, thus a pulse interval (see Shi, Paragraph [0015]).);

a code to store authentication data (*Shi*, Paragraph [0006]: "In addition, the code stored in the memory units of the lock-body as well as the key-body is not a permanent one, but one automatically changed every time after the lock is opened successfully.");

a code to transmit/receive authentication data (*Shi*, Paragraph [0008]: "The cryptogram lock system with automatically variable true random code comprises a lock-body and a key-body with a bi-directional communication link established therebetween (either through connecting wire or radio set)."); and

a code to control the communication of authentication data and collate authentication data (*Shi*, Paragraph [0009]: "When a communication link is established between the lock-body and the key-body, the microprocessor IC1 within the lock-body takes out the code stored in the memory of the IC4 of the key-body and compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1 is the control means, and the comparison between the codes stored in the lock-body and the key-body is the collation of the authentication data.).

Claim 19, Shi further teaches:

The code to control the communication of authentication data and collate authentication data includes: a code to receive authentication data stored in a storage means arranged on the partner side (*Shi*, Paragraph [0009]: "When a

communication link is established between the lock-body and the key-body, *the microprocessor IC1* within the lock-body *takes out the code stored in the memory of the IC4 of the key-body* and compares it with the code stored in the unit IC2 of the lock-body." The memory of the IC4 of the key-body is the *storage means arranged on the partner side.*); **a code to collate the received authentication data with authentication data of a storage means arranged in the body** (Shi, Paragraph [0009]: "When a communication link is established between the lock-body and the key-body, *the microprocessor IC1* within the lock-body takes out the code stored in the memory of the IC4 of the key-body and compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1 is the *control means*, and the comparison between the codes stored in the lock-body and the key-body is the *collation of the authentication data.*); **a code to authenticate the partner side in accordance with the result of collation** (Shi, Paragraph [0009]: "*If the two codes are coincident with each other*, the microprocessor controls the driving mechanism to open the lock, otherwise the microprocessor activates the alarm unit to send out an alarm signal."); **a code to update authentication data after completion of the authentication** (Shi, Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately *a new code from the true random code generator to replace the previous one stored in the memory units IC2 and IC4* so as to make the lock system ready for the next operation."); **and a code to write new authentication data thus updated in the storage means of the body and the partner side** (Shi, Paragraph [0009]: "Whenever the cryptogram lock is opened

successfully, the microprocessor IC1 takes out immediately *a new code from the true random code generator to replace the previous one stored in the memory units IC2 and IC4* so as to make the lock system ready for the next operation.").

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-4, 8-11, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shi (EP 0957220) in view of Shilton (WO 99/41834).

Claim 1, Shi teaches:

An authentication apparatus comprising

a body, and a partner side paired with the body (*Shi*, Paragraph [0008]: "The cryptogram lock system with automatically variable true random code comprises *a lock-body and a key-body* with a bi-directional communication link established therebetween (either through connecting wire or radio set)." The lock body is a *body*, and the key-body is a *partner side*.), the apparatus comprising:

a random pulse generator, arranged in the body or the partner side, or in both the body and the partner side (*Shi*, Paragraph [0008]: "The lock-body comprises a lock mechanism portion and a control portion, wherein said control portion comprises

a microprocessor IC1, a non-volatile memory unit IC2, a *true random code generator* IC3, and an output driver IC5 for driving said lock mechanism portion, and an alarm unit IC6." The random code generator IC3 is a *random pulse generator*, and is arranged in the body.), which generates random pulses (Shi, Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately a *new code from the true random code generator* to replace the previous one stored in the memory units IC2 and IC4 so as to make the lock system ready for the next operation." The random pulse generation is disclosed in Fig. 3 and Paragraph [0017].);

a means which outputs authentication data based on a pulse voltage or a pulse interval of the random pulses generated by the random pulse generator
(Shi, Paragraph [0013]: "Whenever the lock is opened successfully, the *microprocessor IC1 takes out automatically a new code from the true random code generator* and stored it simultaneously in the memory units IC2 and IC4, respectively, for the next opening operation." The microprocessor IC1 outputs the new codes from the code generator and stores them in memory units. The random numbers generated are determined by a sequence of pulses with random widths, thus a pulse interval (see Shi, Paragraph [0015]).);

a means which stores authentication data (Shi, Paragraph [0006]: "In addition, the code *stored in the memory units* of the lock-body as well as the key-body is not a permanent one, but one automatically changed every time after the lock is opened successfully."),

a communication means which transmits/receives authentication data (Shi,
Paragraph [0008]: "The cryptogram lock system with automatically variable true random
code comprises a lock-body and a key-body with a bi-directional *communication link*
established therebetween (either through connecting wire or radio set.)."); and

a control means which controls the communication of authentication data
and collates authentication data (Shi, Paragraph [0009]: "When a communication link
is established between the lock-body and the key-body, *the microprocessor IC1* within
the lock-body takes out the code stored in the memory of the IC4 of the key-body and
compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1
is the *control means*, and the comparison between the codes stored in the lock-body
and the key-body is the *collation of the authentication data*.).

Shi does not teach:

The random pulse generator detects a particles, a beta ray or a gamma ray
released by the collapse of an atomic nucleus and generates the random pulses.

Shilton teaches:

The random pulse generator detects the α particles, the beta ray or the
gamma ray released by the collapse of the atomic nucleus (Shilton, Page 5, Lines
18-20: "The basic design concept of the RPG consists of a low activity radiation source
which emits alpha, beta, gamma, X ray, conversion electron, auger electron or other
random radiation emissions arising from *radioactive decay*." The radiation is detected

by a PIN diode (see Shilton, Page 5, Lines 30-31) or directly onto a silicon chip (see Shilton, Page 6, Lines 1-2). The radioactive decay is the *collapse of the atomic nucleus.*) and generates random pulses (Shilton, Page 4, Lines 13-15: "The combined source and detector in the form of an RPG, produces random voltage and/or current pulses.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the random code generator in Shi by integrating the low radiation source and detector for generating random events as taught by Shilton.

The motivation would be to produce random codes that are difficult to duplicate to prevent fraud or corruption of random pulse generators (see Shilton, Page 1, Lines 9-18).

Claim 2, Shi in view of Shilton further teaches:

The control means receives authentication data stored in the storage means arranged on the partner side, collates the received authentication data with authentication data of the storage means arranged in the body (Shi, Paragraph [0009]: "When a communication link is established between the lock-body and the key-body, the microprocessor IC1 within the lock-body takes out the code stored in the memory of the IC4 of the key-body and compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1 is the *control means*, and the comparison between the codes stored in the lock-body and the key-body is the *collation*

of the authentication data.), and in accordance with the result of collation, authenticates the partner side (Shi, Paragraph [0009]: "If the two codes are coincident with each other, the microprocessor controls the driving mechanism to open the lock, otherwise the microprocessor activates the alarm unit to send out an alarm signal."), and in that upon completion of the authentication, authentication data is updated, and new authentication data thus updated is written in the storage means of the body and the partner side (Shi, Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately a new code from the true random code generator to replace the previous one stored in the memory units IC2 and IC4 so as to make the lock system ready for the next operation.").

Claim 3, *Shi in view of Shilton further teaches:*

A drive unit control means which controls a drive unit in accordance with the result of collation by the control means (Shi, Paragraph [0009]: "If the two codes are coincident with each other, the microprocessor controls the driving mechanism to open the lock, otherwise the microprocessor activates the alarm unit to send out an alarm signal." The driving mechanism, represented by an output drive IC5, is a drive unit control means, which controls the lock of a lock-body, which is a drive unit.).

Claim 4, *Shi in view of Shilton further teaches:*

The body is the body of an electronic lock, and the partner side is a key (Shi, Paragraph [0008]: "The lock-body comprises a lock mechanism portion and a

control portion, wherein said control portion comprises a microprocessor IC1, a non-volatile memory unit IC2, a true random code generator IC3, and an output driver IC5 for driving said lock mechanism portion, and an alarm unit IC6. Said *key-body* further comprises a non-volatile memory unit IC4." The lock-body comprises a microprocessor, memory, random code generator, driver, and alarm unit, thus it is an electronic lock.).

Claim 8, Shi in view of Shilton further teaches:

The communication means transmits/receives the authentication data by circuit connection due to contact or by infrared light communication or radio communication (*Shi*, Paragraph [0008]: "The cryptogram lock system with automatically variable true random code comprises a lock-body and a key-body with a bi-directional communication link established therebetween (either through connecting wire or radio set).").

Claim 9, Shi teaches:

An authentication method comprising the steps of: generating random pulses by a random pulse generator (*Shi*, Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately a new code from the true random code generator to replace the previous one stored in the memory units IC2 and IC4 so as to make the lock system ready for the next operation." The random pulse generation is disclosed in Fig. 3 and Paragraph [0017].) **arranged in a body or a partner side paired with the body, or in**

both the body and the partner side (*Shi*, Paragraph [0008]: "The lock-body comprises a lock mechanism portion and a control portion, wherein said control portion comprises a microprocessor IC1, a non-volatile memory unit IC2, a *true random code generator* IC3, and an output driver IC5 for driving said lock mechanism portion, and an alarm unit IC6." The random code generator IC3 is a *random pulse generator*, and is arranged in the body.);

outputting authentication data based on a pulse voltage or a pulse interval of the random pulses generated by the random pulse generator (*Shi*, Paragraph [0013]: "Whenever the lock is opened successfully, the *microprocessor IC1 takes out automatically a new code from the true random code generator* and stored it simultaneously in the memory units IC2 and IC4, respectively, for the next opening operation." The microprocessor IC1 outputs the new codes from the code generator and stores them in memory units. The random numbers generated are determined by a sequence of pulses with random widths, thus a pulse interval (see *Shi*, Paragraph [0015]).);

storing authentication data (*Shi*, Paragraph [0006]: "In addition, the code stored in the memory units of the lock-body as well as the key-body is not a permanent one, but one automatically changed every time after the lock is opened successfully.");

transmitting/receiving authentication data (*Shi*, Paragraph [0008]: "The cryptogram lock system with automatically variable true random code comprises a lock-body and a key-body with a bi-directional *communication link established therebetween (either through connecting wire or radio set)*."); and

controlling the communication of authentication data and collating authentication data (*Shi*, Paragraph [0009]: "When a communication link is established between the lock-body and the key-body, *the microprocessor IC1* within the lock-body takes out the code stored in the memory of the IC4 of the key-body and compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1 is the *control means*, and the comparison between the codes stored in the lock-body and the key-body is the *collation of the authentication data*.)

Shi does not teach:

The random pulse generator detects the α particles, the beta ray or a gamma ray released by the collapse of an atomic nucleus and generates random pulses.

Shilton teaches:

The random pulse generator detects the α particles, the beta ray or the gamma ray released by the collapse of the atomic nucleus (*Shilton*, Page 5, Lines 18-20: "The basic design concept of the RPG consists of a low activity radiation source which emits alpha, beta, gamma, X ray, conversion electron, auger electron or other random radiation emissions arising from radioactive decay." The radiation is detected by a PIN diode (see *Shilton*, Page 5, Lines 30-31) or directly onto a silicon chip (see *Shilton*, Page 6, Lines 1-2.) **and generates random pulses** (*Shilton*, Page 4, Lines 13-

15: "The combined source and detector in the form of an RPG, produces random voltage and/or current pulses.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the random code generator in Shi by integrating the low radiation source and detector for generating random events as taught by Shilton.

The motivation would be to produce random codes that are difficult to duplicate to prevent fraud or corruption of random pulse generators (see Shilton, Page 1, Lines 9-18).

Claim 10, Shi in view of Shilton further teaches:

The control step receives the authentication data stored in a storage means arranged on the partner side, collates the received authentication data with authentication data of a storage means arranged in the body (Shi, Paragraph [0009]: "When a communication link is established between the lock-body and the key-body, the microprocessor IC1 within the lock-body takes out the code stored in the memory of the IC4 of the key-body and compares it with the code stored in the unit IC2 of the lock-body." Microprocessor IC1 is the *control means*, and the comparison between the codes stored in the lock-body and the key-body is the *collation of the authentication data.*), authenticates the partner side in accordance with the result of collation (Shi, Paragraph [0009]: "If the two codes are coincident with each other, the microprocessor controls the driving mechanism to open the lock, otherwise the

microprocessor activates the alarm unit to send out an alarm signal."), **and after completion of authentication, updates authentication data, and writes new authentication data thus updated in the storage means of the body and the partner side** (Shi, Paragraph [0009]: "Whenever the cryptogram lock is opened successfully, the microprocessor IC1 takes out immediately *a new code from the true random code generator to replace the previous one stored in the memory units IC2 and IC4* so as to make the lock system ready for the next operation.").

Claim 11, Shi in view of Shilton further teaches:

A drive unit control step for controlling a drive unit in accordance with the result of collation in the control step (Shi, Paragraph [0009]: "*If the two codes are coincident with each other, the microprocessor controls the driving mechanism to open the lock, otherwise the microprocessor activates the alarm unit to send out an alarm signal.*" The driving mechanism, represented by an output drive IC5, is a *drive unit control means*, which controls the lock of a lock-body, which is a *drive unit*).

Claim 15, Shi in view of Shilton further teaches:

The communication step transmits and receives the authentication data by circuit connection due to contact or by infrared light communication or radio communication (Shi, Paragraph [0008]: "The cryptogram lock system with automatically variable true random code comprises a lock-body and a key-body with a

bi-directional communication link established therebetween (either through connecting wire or radio set).").

Claim 16, Shi in view of Shilton further teaches:

The body or the partner side includes the hardware of a computer (Shi),

Paragraph [0012]: "The control portion in the lock-body comprises a microprocessor IC1, a non-volatile memory unit IC2 and a true random code generator IC3." The microprocessor IC1 and the non-volatile memory unit IC2 are *hardware of a computer*, and the body includes the hardware.), **and the partner side or the body including the random pulse generator is mounted integrally with or independently of the hardware of the computer (Shi**, Paragraph [0012]: "The control portion in the lock-body comprises a microprocessor IC1, a non-volatile memory unit IC2 and *a true random code generator IC3*." As further disclosed in Fig. 1, the true random generator IC3 is mounted integrally with the hardware of the computer components IC1 and IC2 within the lock-body.).

Claim 17, Shi in view of Shilton further teaches:

The body or the partner side includes the hardware of a computer (Shi),

Paragraph [0012]: "The control portion in the lock-body comprises a microprocessor IC1, a non-volatile memory unit IC2 and a true random code generator IC3." The microprocessor IC1 and the non-volatile memory unit IC2 are *hardware of a computer*, and the body includes the hardware.), **and the partner side or the body including the**

random pulse generator is mounted integrally with or independently of the hardware of the computer (*Shi*, Paragraph [0012]: "The control portion in the lock-body comprises a microprocessor IC1, a non-volatile memory unit IC2 and a *true random code generator IC3*." As further disclosed in Fig. 1, the true random generator IC3 is mounted integrally with the hardware of the computer components IC1 and IC2 within the lock-body.).

3. Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Shi* (EP 0957220) in view of *Shilton* (WO 99/41834), and further in view of *Barker* (U.S. 5,076,971).

Claims 6 and 13, Shi in view of Shilton teach:

An α particle radiator includes ^{241}Am , ^{210}Pb - ^{210}Po , ^{210}Po , and/or ^{244}Cm (*Shilton*, Page 5, Lines 21-25: "The preferred emissions are substantially mono-energetic alpha particles or conversion electrons, more preferably alpha particles from a radionuclide with a long half-life, for example upwards of 140 days such as ^{241}Am , ^{252}Cf , ^{250}Cf , ^{226}Ra , ^{238}U , ^{244}Cm , ^{243}Cm , ^{228}Th , ^{208}Po , ^{209}Po , ^{210}Po , ^{238}Pu or ^{148}Gd or a combination of these.").

Shi in view of Shilton teach:

A beta ray radiator includes ^{210}Pb .

Barker teaches:

A beta ray radiator includes ^{210}Pb (*Barker*, Col. 9, Lines 9-11: "The chain proceeds to Pb 210, which decays by alpha and beta emission with a half-life of 21 years.").

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the radiation source in Shi in view of Shilton with a ^{210}Pb beta emitter as taught by Barker.

The motivation would be to provide a stable beta radiation source with a long half-life (see *Barker*, Col. 2, Lines 6-16) applicable as a low activity radiation source in a Random Pulse Generator (see *Shilton*, Page 5, Lines 18-30).

Response to Arguments

Applicant's arguments filed 11/23/2009 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., generating random numbers unaffected by environmental factors on Page 10, and Page 12) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The examiner notes that the amendment to claims 18-19 of a "computer readable memory medium" overcomes the rejection under 35 U.S.C. 101, because it overcomes the interpretation of a computer readable medium as possibly being a transient medium, i.e. a signal, but instead is now defined as a tangible storage medium. However, although a "computer readable memory medium" is not explicitly defined in the Applicant's specification, the examiner further interprets the term "computer readable memory medium" as being supported by the inherent properties of a computer, as disclosed on Page 18, Lines 14-25 of the specification, unless otherwise specified.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES YANG whose telephone number is 571-270-5170. The examiner can normally be reached on M-F 8:30-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Zimmerman can be reached on 571-272-3059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J.Y./

/Brian A Zimmerman/
Supervisory Patent Examiner, Art Unit 2612